

Abstract

5 The method is directed to controlling a switched reluctance generator operating in a high speed single pulse mode. The turn-off angle is selected according to an analytic fit optimal efficiency curve and the turn-on angle is used as the variable parameter to control power output of the switched reluctance generator. The method results in identifying the most efficient excitation angles and characterizes them for easy implementation under closed loop control. The switched reluctance generator operates under conditions of optimum efficiency under all circumstances.